Report No: 709502407379-00B



## **RF Exposure Estimation**

## 1. Introduction

Applicant:	Louver-Lite Limited	
Address:	Ashton Road, Hyde, Cheshire, SK14 4BG,United Kingdom	
Product:	Remote control	
FCC ID:	2BK6HR2185-6CH	
Model No.:	R2180-1CH, R2185-6CH	
Reference RF report #	709502407379-00B	

## 2. **B.2 Blanket 1 mW Blanket Exemption**

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance. The 1 mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph § 1.1307(b)(3)(ii)(A). The 1 mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

## 3. **RF Exposure Evaluation**

Per the test report included herein, for 433.92MHz

d is the measurement distance in meters (m)

According to C63.10-2020 Annex G   
EIRP = pt × gt = 
$$(E \times d)^2/30$$
 (G.1) where   
pt is the transmitter output power in watts   
gt is the numeric gain of the transmitting antenna (dimensionless)   
E is the electric field strength in V/m

ERP = EIRP /1.64 = 
$$(E \times d)^2 / (30 \times 1.64) = (E \times d)^2 / 49.2$$
 (G.2)  
Transmitter output power for 433.92MHz Function

Field strength (E):	67.00 (dBuV/m) = 0.00224 (V/m)	
Measurement distance (d):	3 (m)	
ERP (W):	0.00000091785 (W)	
ERP (mW):	0.00091785 (mW)	

Phone: +86 21 61410123, Fax:+86 21 61408600

Report No: 709502407379-00B



We used the maximum ERP/EIRP to perform RF exposure exemption evaluation.

Evaluation method	Exempt Limit (mW)	Verdict
Blanket 1 mW Blanket Exemption	1mW	Yes
MPE-based Exemption (ERP)	7mW (ERP)	N/A
SAR-based Exemption (Pth)	3060mW	N/A

So, the device is qualified for SAR test exemption, the exemption report is in lieu of the SAR report.

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch						
Reviewed by:	Prepared by:	Tested by:				
Hui Toney		Tianji Xu				
Hui TONG	Yongqing ZHENG	Tianji XU				
EMC Section Manager Date: January 02, 2024	EMC Project Engineer Date: January 02, 2024	EMC Test Engineer Date: January 02, 2024				
	End of Test Report					